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amples of them have doubtless already been effectually obliterated, and irrevocably lost to science.

NOTES ON THE FLORA OF NORTHAMPTON COUNTY, PENNSYLVANIA

BY EUGENE A. RAU

Having for a number of years studied the flora in the vicinity of Bethlehem and having made quite a large sized herbarium it was an agreeable surprise for me to notice Mr. King's Flora of Northampton Co., Pa., recently published in TORREYA. In examining the list, however, I detected the omission of a number of plants which I had found at various times, and by reference to my herbarium desire to record the addition of the following together with the addition of a number of habitats.

Apparently much work still remains to be done in recording the flora in all parts of the county and designating the ranges of the various species. A thorough search will doubtless necessitate many additions to the list and thus relieve it of the too local character which it now bears.

ADDITIONS TO PLANTS

Lycopodium lucidulum Michx. Hillsides along Monocacy, 1872.

Lycopodium complanatum L. Hillsides, Freemansburg, 1872.

Lycopodium obscurum L. On Lehigh Mt.

Equisetum fluviatile L. In shallow water, Lime Ridge, 1872.

Phegopteris hexagonoptera (Michx.) Fee. In woods, Lehigh Mt., 1871.

Asplenium platyneuron (L.) Oakes. In woods, Lehigh Mt., hillsides near Freemansburg, 1872; along the Bushkill creek, Easton, 1872.

Cystopteris bulbifera (L.) Bernh. On rocks near Illick's mill, 1898; along railroad cut near Bethlehem steel works, 1879.

Batrachium trichophyllum Chaix. Along the Saucon and Monocacy creeks.

Ranunculus obtusiusculus Raf. On small island in Lehigh River near Bethlehem.

- Actaea alba* (L.) Mill. In woods, Lehigh Mt., 1871.
Stylophorum diphyllum Nutt. In cultivated grounds, Bethlehem.
Phlox paniculata L. Low grounds near Hellertown, 1878.
Phlox pilosa L. Hexenkopf Hills, 1871; also along the Monocacy, 1869.

ADDITIONS TO RANGES

- Selaginella apus* (L.) Spring. Along the Monocacy, also near Seidersville, 1871.
Pellaea atropurpurea (L.) Link. On boulders near Illick's mill along the Monocacy, 1871; Jones' ledge along the Lehigh, 1876.
Matteuccia Struthiopteris (L.) Hoffman. On Chain Dam Island along the Lehigh near Easton, 1880.
Camptosorus rhizophyllus (L.) Link. On the rocks, Lehigh Mt., 1879; near Freemansburg, 1879; Lime ridge along the Lehigh, 1872.
Juniperus virginiana L. Hillside, Nisky Cemetery, Bethlehem.
Potamogeton perfoliatus L. Lehigh river, 1871.
Potamogeton crispus L. Saucon creek, 1872.
Vallisneria spiralis L. Lehigh river, Bethlehem.
Arisaema Dracontium (L.) Schlott. Along the Monocacy.
Ornithogalum umbellatum L. Seminary grounds near the Monocacy.
Cypripedium hirsutum Mill. Near Illick's Mill, Monocacy creek.
Hicoria glabra (Mill.) Britton. Nisky, Bethlehem, reported by C. N. Lochman.
Corylus rostrata Ait. Lehigh Mt., 1869, and along the Monocacy, 1871.
Corylus americana Walt. Fence corners along the Monocacy, C. N. Lochman.
Fagus americana Sweet. Along the Monocacy.
Quercus macrocarpa Michx. Formerly found near Nazareth from which place several trees were transplanted to Nisky Cemetery, Bethlehem.
Urtica gracilis Ait. Along the Lehigh, 1871.
Celtis occidentalis L. Cultivated and waste grounds, Bethlehem, 1871.

- Sagina procumbens* L. In streets, Bethlehem, 1891, 1912.
- Caltha palustris* L. Is rather common in low grounds along streams while *Trollius laxus* Salisb. is rare and local in the southern part of the county.
- Atragene americana* Sims. Hexenkopf hills, Williams Twp., 1871.
- Bicuculla Cucullaria* (L.) Millsp. Lime Ridge, 1868.
- Draba verna* (L.). Cultivated grounds, Bethlehem; also near Freemansburg, 1870.
- Hamamelis virginiana* L. Along the Monocacy.
- Gleditsia triacanthos* (L.). Cultivated grounds and Sand Island, Bethlehem.
- Vicia americana* Michx. Lime Ridge, 1870; near Freemansburg, 1872.
- Polygala Senega* (L.). Near Leithsville, 1880.
- Viola pedata* (L.). Lehigh Mt. and Lime Ridge, 1871.
- Epigaea repens* (L.). Hills near Freemansburg, 1866; also Lower Saucon Twp., 1899.
- Gentiana crinita* Froel. Near Illick's Mill, Monocacy, 1871 to 1879; swampy ground near Easton, E. A. Rau, in meadows near Hellertown; reported by C. N. Lochman.
- Convolvulus arvensis* L. College Hill, Easton, 1872, E. A. Rau; waste places, Bethlehem, C. N. Lochman, 1912.
- Trichostema dichotomum* L. Roadsides, Seidersville, 1877.
- Solanum nigrum* L. Sand Island, 1871, along the canal, 1874.
- Dasyctoma Pedicularia* (L.) Benth. In woods along Monocacy, 1870.
- Gerardia tenuifolia* Vahl. In woods along the Monocacy, 1875.
- Melampyrum lineare* Lam. In woods, Lehigh Mt.
- Leptamnium virginianum* (L.) Raf. In beech woods, Monocacy, 1873-1879.
- Galium circaeazans* Michx. Hexenkopf Hills, 1871; Nisky Hill and along the Monocacy, 1871.
- Galium asprellum* Michx. Nisky Hill, 1871.
- Galium Aparine* L. Nisky Hill, 1871.
- Hieracium pilosella* L. Cultivated grounds, Bethlehem.